Bangalore Electricity Supply Company Limited
(CIN-U4010KA2002SGC030438)

Ref. No. : BESCOM/D(T)/GM(M&C)/DGM(M&C)/AGM-M2/2024-25 | 704
Encl :

Corporate Office,
BESCOM, K.R. Circle,
Bangalore–560 001.
Date: 09/07/2024

Amendment No.-1

Sub: For Procurement of Portable single phase, three phase LT, HT and Universal HT&LT Electronic Reference Standard Meters (Accuchecks)

Ref: 1. Paper Notification dated 11.06.2024.
2. T.O. Bid Enquiry No. BESCOM/GM(M&C)/141/2024-25.
3. KPPP Enquiry No. BESCOM/2023-24/IND0042/CALL-2.
4. Pre-bid meeting held on 24.06.2024.
5. Approval of D(T) dated 05.07.2024.

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The following amendments pertaining to subject bid enquiry is herewith issued consequent to request from the prospective bidders and deliberations held during pre-bid meeting:

Sl. No	Document	Clause No.	As existing	As amended
1	Technical specifications_ Three Phase LT ERS	Clause 1.7	The ERS meter shall have a facility to store minimum **10000** test results along with following instantaneous parameters. The ERS meter shall have memory to record the test data. The error data not less than **10000** test shall be stored in RSM memory.	The ERS meter shall have a facility to store minimum **12000** test results along with following instantaneous parameters. The ERS meter shall have memory to record the test data. The error data not less than **12000** test shall be stored in RSM memory.
2	Technical specifications_ Three Phase HT ERS	Clause 8	**Constructional features and general requirements** ... Use of auxiliary supply is not acceptable for both laboratory and field testing conditions... Dial Test facility must be available by using optical port available in the meter of DLMS protocol. The RSM meter shall have a facility to store minimum **32000** test results along with instantaneous parameters.	**Constructional features and general requirements** ....Use of auxiliary supply is **optional** for laboratory and not acceptable for field testing conditions... Dial Test facility must be available by using optical port available in the meter of DLMS protocol **and also manual entry in case of Non- DLMS meters.** The RSM meter shall have a facility to store minimum **12000** test results along with instantaneous parameters.
3	Technical specifications_	Clause 18	One set of Clamp On current transformers (CT) **of 400A** and 10A confirming to class 0.2S	One set of Clamp On current transformers (CT) of 10A confirming to class 0.2S complete

Sl. No	Document	Clause No.	As existing	As amended
	Three Phase HT ERS		complete with connection cable for on-line testing and Optical probe for DLMS Dial test.	with connection cable for on-line testing and Optical probe for DLMS Dial test.
4	Technical specifications_ Three phase HT & LT ERS Combined	Clause 8	**Constructional features and general requirements.** Dial Test facility must be available by using optical port available in the meter of DLMS protocol. The RSM meter shall have a facility to store minimum **8000** test results along with instantaneous parameters. The RSM meter shall have memory to record the test data.	**Constructional features and general requirements.** Dial Test facility must be available by using optical port available in the meter of DLMS protocol **and also manual entry in case on Non- DLMS meters.** The RSM meter shall have a facility to store minimum **12000** test results along with instantaneous parameters. The RSM meter shall have memory to record the test data.
5	Technical specifications_ Three phase HT & LT ERS Combined	Clause 9	**Sr. No 28 of Table** RYB phase - Voltage and current up to **51st** Harmonics	**Sr. No 28 of Table** RYB phase - Voltage and current up to **31st** Harmonics
6	Technical specifications_ Three phase HT & LT ERS Combined	Clause 18	**Optical probe for DLMS Dial test:** Dial Test facility must be available by using optical port available in the meter of DLMS protocol.	**Optical probe for DLMS Dial test:** Dial Test facility must be available by using optical port available in the meter of DLMS protocol and also manual entry in case on Non-DLMS meters.
7	Technical specifications_ Single Phase ERS	Clause b, c, g	**b. APPLICATION** The function of the RSM shall be suitable to measure the system parameters and verify the accuracy of the single-phase energy meters in the laboratory and at site **both direct mode and** without disconnecting consumers supply when used with the clamp-on CT. **c. SYSTEM TECHNICAL DATA:** Current Range (Imin–Imax): **1) Direct Mode - 50mA to 10A** 2) Clamp on CT Mode - 50mA to 60A **g. STANDARD RATED CURRENT AND MAXIMUM CURRENT:** The Standard current rating of the RSM shall be, **1) Direct Mode - 50mA to 10A** 2) Clamp on CT Mode - 50mA to 60A. **GTP Sl.No.8** **Direct Mode**	**b. APPLICATION** The function of the RSM shall be suitable to measure the system parameters and verify the accuracy of the single-phase energy meters in the laboratory and at site without disconnecting consumers supply when used with the clamp-on CT. **c. SYSTEM TECHNICAL DATA:** Current Range (Imin–Imax) : Clamp on CT Mode - 50mA to 60A **g. STANDARD RATED CURRENT AND MAXIMUM CURRENT:** The Standard current rating of the RSM shall be, Clamp on CT Mode - 50mA to 60A. **GTP Sl.No. 8** **deleted**

Sl. No	Document	Clause No.	As existing	As amended
8	Technical specifications_ Three Phase LT ERS	Clause 1.1	**Application** Capable of performing the accuracy on **both** Clamp on CT **and Direct mode CT**	**Application** Capable of performing the accuracy on both Primary Clamp on CT and Secondary Clamp on CT.
9	Technical specifications_ Three Phase LT ERS	Clause 1.22	WIRELESS TAB/ HANDY LAPTOP DISPLAY DEVICE AND PRINTER SPECIFICATIONS: (3) **Memory** RAM-8GB, ROM-128GB	WIRELESS TAB/ HANDY LAPTOP DISPLAY DEVICE AND PRINTER SPECIFICATIONS: (3) **Memory** RAM-8GB, ROM-**64GB**
10	Technical specifications_ Three Phase HT ERS	Clause 14.0	Test of accuracy requirements	**Deleted**
11	Technical specifications_ Three Phase HT ERS	Clause 18.0	**Accessories** One set of Clamp On current transformers (CT) of **400A** and 10A confirming to class 0.2S complete with connection cable for on-line testing.	**Accessories** One set of Clamp On current transformers (CT) of 10A confirming to class 0.2S complete with connection cable for on-line testing.
12	Technical specifications_ Three Phase HT ERS	Clause 23	WIRELESS TAB/ HANDY LAPTOP DISPLAY DEVICE AND PRINTER SPECIFICATIONS: (3) **Memory** RAM-8GB, ROM-**128GB**	WIRELESS TAB/ HANDY LAPTOP DISPLAY DEVICE AND PRINTER SPECIFICATIONS: (3) **Memory** RAM-8GB, ROM-**64GB**
13	Technical specifications_ Combined HT & LT ERS	Clauses 1.0, 6.0, GTP 10 & 14	**Scope** The current range of primary Clamp on CT shall be 1A to 400A and secondary clamp on CT shall be **10 mA** to 10A and for Direct CT current range from **50mA** to 10A at site as well as in Laboratory. **6.0 Supply system** **Sl.No. 3 Working range:** Direct Mode CT (**50mA** to 10A) Ib-5A, Imax-10A Primary Clamp on CT (1A to 400A) Ib-5A, Imax-400A Secondary Clamp on CT (**10mA** to 10A) Ib-5A, Imax-10A **GTP Sl.No. 10 & 14 :** Direct Mode CT (**50mA** to 10A) Ib-5A, Imax-10A Primary Clamp on CT (1A to 400A) Ib-5A, Imax-400A Secondary Clamp on CT (**10mA** to 10A) Ib-5A, Imax-10A	**Scope** The current range of primary Clamp on CT shall be 1A to 400A and secondary clamp on CT shall be **50 mA** to 10A and for Direct CT current range from **10mA** to 10A at site as well as in Laboratory. **6.0 Supply system** **Sl.No. 3 Working range:** Direct Mode CT (**10mA** to 10A) Ib-5A, Imax-10A Primary Clamp on CT (1A to 400A) Ib-5A, Imax-400A Secondary Clamp on CT (**50mA** to 10A) Ib-5A, Imax-10A **GTP Sl.No. 10 & 14 :** Direct Mode CT (**10mA** to 10A) Ib-5A, Imax-10A Primary Clamp on CT (1A to 400A) Ib-5A, Imax-400A Secondary Clamp on CT (**50mA** to 10A) Ib-5A, Imax-10A

Sl. No	Document	Clause No.	As existing	As amended
14	Technical specifications_ Combined HT & LT ERS	Clause 14	**14. Type tests** **Test of accuracy requirements** Test of accuracy requirements	**Type tests** **Test of accuracy requirements** **- Deleted**
15	Technical specifications_ Combined HT & LT ERS	Clause 23.0	WIRELESS TAB/ HANDY LAPTOP DISPLAY DEVICE AND PRINTER SPECIFICATIONS: (3) **Memory** RAM-8GB, ROM-**128GB**	WIRELESS TAB/ HANDY LAPTOP DISPLAY DEVICE AND PRINTER SPECIFICATIONS: (3) **Memory** RAM- **8GB,** ROM-**64GB**
16	New Clause	-	-	On intimation, the Techno-commercial responsive bidders shall submit sample of each type of Reference standard meters (RSM) for verification at MT Division, BESCOM for ascertaining compliance as per specifications. After confirmation for compliance from MT lab, the price bid of such bidders shall be opened.

All other terms & conditions of the subject tender remain unaltered.

(Yogesh.B.K)
General Manager (Ele.),
Meters & Commercial
BESCOM